Product Data Sheet

ROS1 siRNA (Rat)

Catalog #	Source	Reactivity	Applications
CRR0601	Synthetic	R	RNAi

Description	siRNA to inhibit ROS1 expression using RNA interference
Specificity	ROS1 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Form	Lyophilized powder
Gene Symbol	ROS1
Alternative Names	Proto-oncogene tyrosine-protein kinase ROS; Proto-oncogene c-Ros; Proto-oncogene c-Ros-1; Receptor tyrosine kinase c-ros oncogene 1; c-Ros receptor tyrosine kinase
Entrez Gene	25346 (Rat)
SwissProt	Q63132 (Rat)
Purity	> 97%
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Components	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat ROS1 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot.

Component	15 nmol	30 nmol

COHESION BIOSCIENCES LIMITED

WEB	ORDER	SUPPORT	CUSTOM
www.cohesionbio.com	order@cohesionbio.com	techsupport@cohesionbio.com	custom@cohesionbio.com

ROS1 siRNA (Rat) - A	5 nmol x 1	5 nmol x 2
ROS1 siRNA (Rat) - B	5 nmol x 1	5 nmol x 2
ROS1 siRNA (Rat) - C	5 nmol x 1	5 nmol x 2
Negative Control	2.5 nmol x 1	2.5 nmol x 2
DEPC Water	1 ml x 1	1 ml x 2

Directions for Use We recommends transfection with 10 nM - 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For example, resuspend one tube of 5 nmol siRNA oligo in 250 μl of DEPC water to get a final concentration of 20 μM.

Plate	Final volume of medium	Final concentration of siRNA	siRNA (20 μM)	Lipofectamin 2000
96-well	100 μl	100 nM	0.5 μl	0.25 μl
		50 nM	0.25 μl	0.25 μl
		10 nM	0.05 μl	0.25 μl
24-well	500 μl	100 nM	2.5 μl	1 μl
		50 nM	1.25 μl	1 μl
		10 nM	0.25 μl	1 μl
12-well	1 ml	100 nM	5 μl	2 μl
		50 nM	2.5 μl	2 μl
		10 nM	0.5 μl	2 μl
6-well	2 ml	100 nM	10 μl	5 μl
		50 nM	5 μl	5 μl
		10 nM	1 μl	5 μl

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference
Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

COHESION BIOSCIENCES LIMITED

WEB	ORDER	SUPPORT	CUSTOM
www.cohesionbio.com	order@cohesionbio.com	techsupport@cohesionbio.com	custom@cohesionbio.com

Storage/Stability   Shipped at 4 °C. Store at -20 °C for one year.

COHESION BIOSCIENCES LIMITED

WEB
www.cohesionbio.com

ORDER
order@cohesionbio.com

SUPPORT
techsupport@cohesionbio.com

CUSTOM
custom@cohesionbio.com